

PLUMBING - LABORATORY GASES OVERALL PLAN - THIRD FLOOR

0 4 8 12'

CONTRACTOR EXISTING UTILITIES NOTE:

CONTRACTOR IS TO ALLOCATE MONEY IN THE FINAL PRICE AS REQUIRED TOWARD THE RE-WORKING OF EXISTING UTILITIES AND INSTALLATION OF NEW UTILITIES COMING IN AND GOING OUT OF ALL EXISTING CHASES AND COORDINATE RE-WORKING AND INSTALLATION OF UTILITIES WITH OTHER TRADES.

KEY NOTES

- 1" LAB VACUUM, 3/4" LAB AIR, AND 3/4" NAT. GAS LINES FOR CONNECTION TO BENCH SERVICES CEILING PANEL. PROVIDE TWO CONNECTIONS FOR EACH SERVICE AT LAB PANEL. CONTRACTOR SHALL COORDINATE EXACT CONNECTION REQUIREMENTS WITH CEILING PANEL MANUFACTURER.
- 1" LAB VACUUM, 3/4" LAB AIR, AND 3/4" NAT. GAS LINES FOR CONNECTION TO BENCH SERVICES CEILING PANEL. PROVIDE ONE CONNECTION FOR EACH SERVICE AT LAB PANEL. CONTRACTOR SHALL COORDINATE EXACT CONNECTION REQUIREMENTS WITH CEILING PANEL MANUFACTURER.
- 3/4" LAB VACUUM LINE TO TOP CONNECTION OF BIO-SAFETY CABINET. CONTRACTOR SHALL COORDINATE EXACT CONNECTION REQUIREMENTS WITH CABINET MANUFACTURER. CONNECTION TO BE INSTALLED WITHIN HOOD SHROUD. PROVIDE ACCESSIBLE SHUT-OFF VALVE ABOVE CEILING AS SHOWN FOR MAINTENANCE PURPOSES.
- 1/2" CARBON DIOXIDE LINE DOWN IN WALL TO SERVE INCUBATOR(S). CONTRACTOR SHALL COORDINATE EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER. CONTRACTOR SHALL PROVIDE AT EACH CONNECTION POINT AN IN-LINE SHUT-OFF VALVE AND PRESSURE REGULATOR. CONTRACTOR TO POSITION OUTLETS IN SUCH A WAY SO AS TO INSURE ACCESSIBILITY OF OUTLETS ONCE EQUIPMENT IS IN PLACE.
- 1/2" LAB AIR, 1/2" NATURAL GAS, AND 3/4" LAB VACUUM LINES DOWN IN WALL TO SERVE WALL OUTLETS. CONTRACTOR SHALL REFER TO ARCHITECTURAL CASEWORK ELEVATIONS FOR EXACT LOCATION OF OUTLET. CONTRACTOR TO POSITION OUTLETS IN SUCH A WAY SO AS TO INSURE ACCESSIBILITY OF OUTLETS ONCE EQUIPMENT IS IN PLACE.
- 1/2" NATURAL GAS, 1/2" LAB AIR AND 3/4" LAB VACUUM LINES DOWN IN WALL TO SERVE WALL OUTLETS. CONTRACTOR SHALL REFER TO ARCHITECTURAL CASEWORK ELEVATIONS FOR EXACT LOCATION OF OUTLET. CONTRACTOR TO POSITION OUTLETS IN SUCH A WAY SO AS TO INSURE ACCESSIBILITY OF OUTLETS ONCE EQUIPMENT IS IN PLACE.
- 3/4" LAB VACUUM, 1/2" LAB AIR, AND 1/2" NAT. GAS LINES FOR TOP CONNECTION OF FUME HOOD SERVICES. CONTRACTOR SHALL COORDINATE EXACT CONNECTION REQUIREMENTS WITH HOOD MANUFACTURER. CONNECTION TO BE INSTALLED WITHIN HOOD SHROUD. PROVIDE ACCESSIBLE SHUT-OFF VALVE ABOVE CEILING AS SHOWN FOR MAINTENANCE PURPOSES.
- 1/2" CARBON DIOXIDE AND 1/2" OXYGEN LINES DOWN IN WALL TO SERVE LABORATORY OUTLETS. REFER TO ARCHITECTURAL CASEWORK ELEVATIONS FOR EXACT LOCATION OF OUTLET.
- OXYGEN MANIFOLD - 2 BOTTLE PRIMARY WITH 2 BOTTLE RESERVE. REFER TO DETAIL ON SHEET 1-PL.02-357.
- CARBON DIOXIDE MANIFOLD - 2 BOTTLE PRIMARY WITH 2 BOTTLE RESERVE. REFER TO DETAIL ON SHEET 1-PL.02-357.
- CONNECT NEW 1" NATURAL GAS LINE TO EXISTING. FIELD VERIFY EXACT POINT OF CONNECTION.
- CONNECT NEW 3/4" LAB AIR LINE TO EXISTING 3/4" LAB AIR LINE. REFER TO LAB AIR SCHEMATIC ON SHEET 1-PL.03-357 FOR CONTINUATION OF LINE UPSTREAM OF THIS POINT.
- 1-1/4" LAB VACUUM LINE TURNED DOWN IN CHASE AND CONNECTED TO EXISTING 1-1/4" LAB VACUUM LINE AT THE FOURTH FLOOR. FIELD VERIFY EXACT POINT OF CONNECTION.
- CONNECT NEW 1-1/4" LAB VACUUM LINE TO EXISTING. FIELD VERIFY EXACT POINT OF CONNECTION.
- CONNECT NEW 5" RWL TO EXISTING 5" RWL.
- MULTI-SIGNAL ALARM PANEL TO MONITOR FUNCTION OF CO2 AND O2 MANIFOLD.
- 1/2" NATURAL GAS AND 3/4" LAB VACUUM LINES DOWN IN WALL TO SERVE WALL OUTLETS. CONTRACTOR SHALL REFER TO ARCHITECTURAL CASEWORK ELEVATIONS FOR EXACT LOCATION OF OUTLET. CONTRACTOR TO POSITION OUTLETS IN SUCH A WAY SO AS TO INSURE ACCESSIBILITY OF OUTLETS ONCE EQUIPMENT IS IN PLACE.
- 1/2" CARBON DIOXIDE LINE DOWN IN WALL TO SERVE WALL OUTLET. CONTRACTOR SHALL REFER TO ARCHITECTURAL CASEWORK ELEVATIONS FOR EXACT LOCATION OF OUTLET. CONTRACTOR TO POSITION OUTLETS IN SUCH A WAY SO AS TO INSURE ACCESSIBILITY OF OUTLETS ONCE EQUIPMENT IS IN PLACE.
- 1/2" CARBON DIOXIDE, OXYGEN AND AIR LINES DOWN IN WALL TO SERVE WALL OUTLETS. CONTRACTOR SHALL REFER TO ARCHITECTURAL CASEWORK ELEVATIONS FOR EXACT LOCATION OF OUTLETS. CONTRACTOR TO POSITION OUTLETS IN SUCH A WAY SO AS TO INSURE ACCESSIBILITY OF OUTLETS ONCE EQUIPMENT IS IN PLACE.
- 1/2" LAB AIR, AND 1/2" NAT. GAS LINES FOR TOP CONNECTION OF FUME HOOD SERVICES. CONTRACTOR SHALL COORDINATE EXACT CONNECTION REQUIREMENTS WITH HOOD MANUFACTURER. CONNECTION TO BE INSTALLED WITHIN HOOD SHROUD. PROVIDE ACCESSIBLE SHUT-OFF VALVE ABOVE CEILING AS SHOWN FOR MAINTENANCE PURPOSES.
- 1/2" NATURAL GAS, 3/4" LAB VACUUM, 1/2" OXYGEN LINES DOWN IN WALL TO SERVE WALL OUTLETS. CONTRACTOR SHALL REFER TO ARCHITECTURAL CASEWORK ELEVATIONS FOR EXACT LOCATION OF OUTLET. CONTRACTOR TO POSITION OUTLETS IN SUCH A WAY SO AS TO INSURE ACCESSIBILITY OF OUTLETS ONCE EQUIPMENT IS IN PLACE.
- 1/2" NITROGEN LINE DOWN IN WALL TO SERVE WALL OUTLET. CONTRACTOR SHALL REFER TO ARCHITECTURAL CASEWORK ELEVATIONS FOR EXACT LOCATION OF OUTLET. CONTRACTOR TO POSITION OUTLET IN SUCH A WAY SO AS TO INSURE ACCESSIBILITY OF OUTLET ONCE EQUIPMENT IS IN PLACE.
- NITROGEN SOURCE SUPPLY - REFER TO DETAIL ON SHEET 1-PL.02-356.

** APPLIES TO THIS SHEET ONLY **

WALL LEGEND

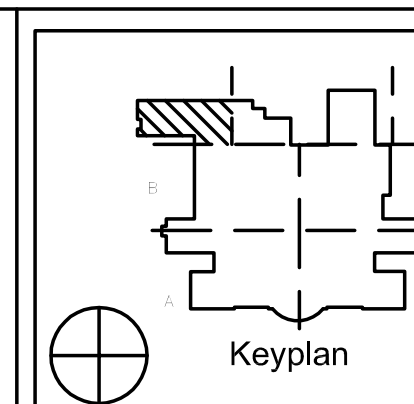
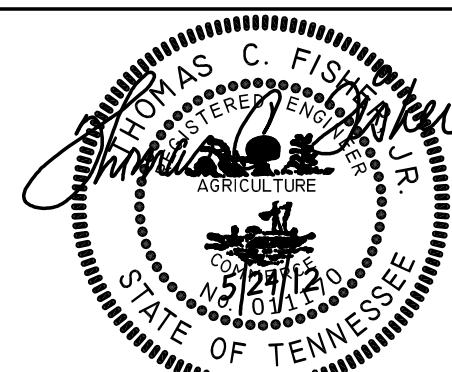
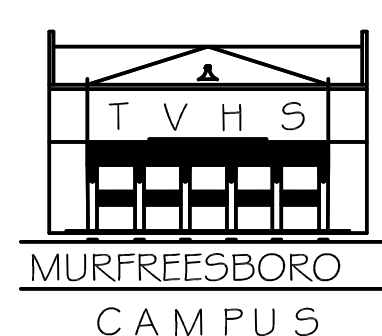
- EXISTING PARTITION
- EXISTING ONE HOUR FIRE BARRIER
- EXISTING TWO HOUR FIRE BARRIER
- NEW TYPICAL PARTITION
- NEW 1-HR. RATED FIRE PARTITION
- NEW 2-HR. RATED FIRE PARTITION

FULLY SPRINKLERED

Revisions	Date
AMENDMENT #4	5/24/12



Tennessee Valley Healthcare System



Project Title	VA Renovation Research Lab Phase 3	Date	3-5-2012
Drawing Title	OVERALL PLAN - THIRD FLOOR - PLBG - LABORATORY GASES	Project No.	626-11-101
Approved By		Drawing No.	1-PL.03-357
Building Number		Draw.	64
Floor		Of	92
Checked By	RSM		
Drawn By	BDA		

Department of
Veterans Affairs